

California Regional Water Quality Control Board  
North Coast Region

Monitoring & Reporting Program No. R1-2007-0052

For

Chevron USA Inc.  
Redwood Oil Company  
Peter Van Alyea  
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Ernest Moles LLC

Redwood Oil/Chevron Bulk Plant  
258 Roseland Avenue  
Santa Rosa, California

Case No. 1TSO252

Sonoma County

Groundwater Monitoring

1. The presence of floating product shall be evaluated in each monitoring well quarterly. If detected, the thickness shall be measured to the nearest 0.01 foot increment.
2. Prior to purging, the depth to groundwater shall be determined to at least 0.01 foot increments in all groundwater monitoring wells at a quarterly frequency. The data generated from the elevation readings must be referenced to the same elevation datum used for the electronic GeoTracker survey values.
3. Groundwater in each monitoring well shall be sampled according to Table 1 (attached). The analyses shall be performed by a state certified laboratory for total petroleum hydrocarbons as diesel (TPH-d), total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, xylene (BTEX), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA).

Reporting

4. The following maps shall be submitted with each quarterly monitoring report:

- A map of the facility showing the quarterly groundwater flow pattern, including the direction of the groundwater gradient and the location of all monitoring wells, and
  - A map of the facility showing a contamination contour map for each significant pollutant detected.
5. The results of each quarter's elevation shall be reported in tabular form indicating the surveyed elevations of each reference point, depth to groundwater from the reference point, and the actual groundwater elevation.
  6. Sampling analytical and monitoring data from each quarter shall be summarized in tabular form, including all previously generated sampling data.
  7. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents; and signed laboratory sheets including quality control data and explanation of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
  8. Monitoring reports shall be submitted to the Regional Water Board at a quarterly frequency. Monitoring report shall be prepared by or under the supervision of a California Registered Engineer or Geologist. Monitoring reports shall be submitted to this office in accordance with the following schedule:

Reporting Period	Due Date
January, February, March	April 30
April, May, June	July 30
July, August, September	October 30
October, November, December	January 30

9. All monitoring report, data, and depth to groundwater measurements shall also be submitted electronically to the State Water Resources Control Board's GeoTracker database.

Ordered by \_\_\_\_\_  
Catherine E. Kuhlman  
Executive Officer

June 20, 2007

Table 1

Well ID	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
DHS-8	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-2	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-3	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-4	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-5	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-6	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-7	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-9	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-10	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA
MW-12	TPH-d, MTBE		TPH-d, MTBE	
MW-13	TPH-d, MTBE		TPH-d, MTBE	
MW-16	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA	TPH-g, TPH-d, BTEX, MTBE, TBA

MW-1, MW-8, MW-11, MW-14, and MW-15 have been previously removed from sampling requirements.